

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A structure of pick-up head, which said pick-up head utilizes the utilizing a way of electric reading / electric writing to access data on a disk provided with a ferroelectric material, the structure pick-up head comprising:

a signal-writing unit, for providing a voltage being provided by the signal-writing unit to write down signals the data on the disk;

a signal-processing unit, for coping with an electric signals signal read from the a data-storing surface on the disk being processed by the signal-processing unit; and

a pair of conductive wires extended from the signal-writing unit and the signal-processing unit, wherein the ends of the pair of conductive wires are being close but separate to separated by a gap, the signal-writing unit exerts a the voltage being applied by the signal-writing unit on the pair of conductive wires to let the ends generate a an electric field around the gap so as to polarize the data-storing surface on the disk to write the data, perform the function of writing; and when the function of reading is performed, the ends of the pair of conductive wires are being approached to the data-storing surface to induce the situation of polarizing, and then the electric signals read from the disk are being transmitted to the signal-processing unit.

2. (Currently Amended) The structure pick-up head according to claim 1, ~~wherein the pick-up head further comprises comprising~~ a switch for determining the pair of conductive wires being connected ~~with to one of~~ the signal-writing unit ~~or and~~ the signal-processing unit.

3. (Currently Amended) The structure pick-up head according to claim 1, ~~wherein the pick-up head further comprises comprising~~ a pedestal for fixing the pair of conductive wires so as to control the positions of the ends of the pair of conductive wires.

4. (Currently Amended) A structure of pick-up head, ~~which utilizes said pick-up head utilizing a~~ the way of optical reading / electric writing to access data on a disk provided with a ferroelectric material, the structure pick-up head comprising:

a signal-writing unit, ~~for providing~~ a voltage being provided by the signal-writing unit to write down signals the data on the disk;

a pair of conductive wires extended from the signal-writing unit, ~~wherein the ends of the pair of conductive wires are being close but separate to separated by a gap, the signal-writing unit exerts a~~ the voltage being applied by the signal-writing unit on

the pair of conductive wires to let the ends generate a an electric field around the gap so as to polarize the data-storing surface on the disk to write the data, perform the function of writing;

a laser diode for emitting a laser beam to read the signals data written by the pair of conductive wires;

an object lens for focusing the laser beam on the data-storing surface on the disk to turn into a reading optical point; and

a photodetector for translating a reflective beam from the reading optical point into a electric signal.

5. (Currently Amended) The structure pickup head according to claim 4, wherein the pick-up head further comprises comprising:

a collimator for coping with the laser beam emitted from the laser diode into a parallel optical beam;

a polarization beam splitter for separating the laser beam emitted from the laser diode and the reflective beam from the reading optical point; and

a focusing lens for focusing the reflective beam from the polarization beam splitter on the photodetector.

6. (Currently Amended) The structure pickup head according to claim 4, ~~wherein the pick-up head further comprises comprising~~ a pedestal for fixing the pair of conductive wires so as to control the positions of the ends of the pair of conductive wires.

7. (Currently Amended) A method for accessing signals applied in data by a pick-up head, the pick-up head utilizing a which utilizes the way of electric reading / electric writing to access the data on a disk provided with a ferroelectric material, the method comprising the steps of:

exerting a voltage on a pair of conductive wires on the pick-up head while writing, ~~the ends of the conductive wires generate a microelectrode and the microelectrode generates a~~ thereby generating an electric field between the pair of conductive wires;

letting the electric field generated by the microelectrode approach the disk so as to polarize ~~the a~~ data-storing surface made by the ferroelectric material to write down signals the data;

~~unexerting a voltage on the pair of conductive wires while reading, and utilizing the ends of the pair of conductive wires to induce the polarized electric charges on the data-storing surface; and~~

processing electric signals which individually represent the polarized electric charges.

8. (Currently Amended) The structure method according to claim 7, wherein further comprising utilizes the polarizing utilizing a polarized area on the data-storing surface to represent one of a digital data 1 and 0, and utilizing unpolarizing an unpolarized area or different directions of polarization on the data-storing surface to represent the other of the digital data 1 and 0.

9. (Currently Amended) The structure method according to claim 7, wherein further comprising providing the pick-up head further comprises a pedestal for fixing the pair of conductive wires so as to control the positions of the ends of the pair of conductive wires.

10. (Currently Amended) A method for accessing signals applied in data by a pick-up head, the pick-up head utilizing a which utilizes the way of optical reading / electric writing to access the data on a disk provided with a ferroelectric material, the method comprising comprising the steps of:

exerting a voltage on a pair of conductive wires on the pick-up head while writing, the ends of the conductive wires

generate a microelectrode and the microelectrode generates a thereby generating an electric field between the pair of conductive wires;

letting the electric field generated by the microelectrode approach the disk so as to polarize the a data-storing surface made by the ferroelectric material to write down signals the data;

casting a laser beam while reading, the laser beam passes passing through an object lens and focuses focusing on the data-storing surface to turn into a reading optical point; and

utilizing a photodetector to receive a reflective beam from the reading optical point and translating the reflective beam to an electric signal.

11. (Currently Amended) The structure method according to claim 10, wherein further comprising utilizes the polarizing utilizing a polarized area on the data-storing surface to represent one of a digital data 1 and 0, and utilizing unpolarizing an unpolarized area or different directions of polarization on the data-storing surface to represent the other of the digital data 1 and 0.

12. (Currently Amended) The structure method according to claim 10, wherein further comprising providing the pick-up head

~~further comprises~~ a pedestal for fixing the pair of conductive wires so as to control the positions of the ends of the wires.